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Professional Summary

Dedicated Computer Science student with strong programming foundations and systems knowledge. Experienced in full-stack development, AI integration, and open-source contributions. Proficient across multiple operating systems and passionate about creating innovative solutions with modern technologies.

Education

2022–2026 Bachelor of Engineering in Computer Science, The Hong Kong University of Science and

Technology, Hong Kong

Focus: Software Development and Computer Systems

2016–2022 Hong Kong Diploma of Secondary Education, Raimondi College, Hong Kong

Achieved 5* in ICT, 5 in Physics

Professional Experience

Jun-Aug Cyber Security Analyst (Al Developer), Hoplite Technology Limited, Hong Kong

2025 Summer Internship

https://www.hoplite-tech.com/

- Developed Al-powered applications including Reddit scraper (Go), meal planner (Next.js), and OTP authentication system
- ▷ Implemented custom Langflow AI workflows and Microsoft AutoGen agent orchestration
- ▷ Built data visualization tools for MongoDB analytics and menu processing systems
- ⊳ Gained hands-on experience with cloud deployment (AWS, Docker, Kubernetes) and AI integration

Jun-Aug Junior Programmer, Radiance Tech International, Hong Kong

2024 Summer Internship

https://radiance.com.hk/

- Developed full-stack solutions for company website and standalone forum application
- ▶ Implemented frontend features using Vue.js with RESTful API consumption

Key Projects

Paopao-ce Forum Platform, Go, Gin, Vue.js, MySQL, Open Source

https://github.com/waydxd/paopao-ce

- $\,\vartriangleright\,$ Forked and enhanced open-source web forum, resolving critical dependency and runtime issues
- ▷ Integrated MySQL/MariaDB databases with new feature development and session management
- ▶ Implemented advanced community features including moderation tools and NSFW content filtering
- ▷ Designed responsive UI/UX using Vue 3 and Naive UI component library

Manganesium Search Engine, Kotlin, Ktor, Vue.js, MapDB, Academic Project

https://github.com/waydxd/maganesium

- Developed full-stack search engine with advanced term and link-based scoring algorithms
- ▷ Built asynchronous web crawler with optimized inverted index and intelligent caching system
- ▷ Created responsive SPA frontend featuring query history and real-time autocomplete
- ▶ Led integration of frontend design with backend crawler and search optimization

Exam Management System, Java, JOOQ, JavaFX, SQLite, Team Project

https://github.com/waydxd/COMP3111-Project

- Designed comprehensive exam management platform with multi-role portal system
- ▷ Implemented robust database operations using JOOQ ORM with SQLite backend
- Developed intuitive JavaFX GUI supporting student, teacher, and administrator workflows
- ▷ Achieved high test coverage using JUnit and Mockito with automated Maven builds

Technical Skills

Languages

Programming C/C++, Python, Java, Kotlin, Golang, TypeScript/JavaScript

Web HTML5, CSS3, Node.js, Vue.js, Next.js, RESTful APIs, Laravel

Technologies

Databases & MySQL, SQLite, MongoDB, JOOQ, MapDB

Tools

Machine PyTorch, TensorFlow, Keras, NumPy, Pandas, Matplotlib

Learning

DevOps &

Docker, Kubernetes, AWS, Git, Maven, Apache

Cloud

Operating Linux, macOS, Windows

Systems